PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JA907179	FOR FURTHER ACTIO)N	See Form PCT/IPEA/416		
International application No. PCT/JP2003/016176	International filing date (date 17 December 2003 (Priority date (day/month/year) 15 January 2003 (15.01.2003)		
International Patent Classification (IPC) or national classification and IPC C07K 14/705, G01N 33/50, 33/15 // C12N 15/09					
Applicant JAPAN SCIENCE AND TECHNOLOGY AGENCY					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
3. This report is also accompanied by a second and a second a second and a second a second and a second a second and a second a second and a second a second and a second a second and a second a second and a second a second a second a second and a second and a second a second a) a total of 1	sheets, as follows:		
sheets of the desc and/or sheets cor					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) diskette 1 , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step			ntive step and industrial applicability		
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand	D	ate of completion	of this report		
13 May 2004 (13.05.2004)		28	January 2005 (28.01.2005)		
Name and mailing address of the IPEA/JP	A	uthorized officer			
Facsimile No.		elephone No.			

Translation

International application No.

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BOX IVO.		Basis of the report	
		to the language, this report is based on the international application in the languaged dicated under this item.	uage in which it was filed, unless
	This whic	report is based on translations from the original language into the following h is language of a translation furnished for the purpose of:	language,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
			:
furnis	shed to re not The i	I to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referred annexed to this report): International application as originally filed/furnished	replacement sheets which have been I to in this report as "originally filed"
		scription: 1-29	, as originally filed/furnished
	pages		, as originally mountainnesses
	pages		
	the c		
		4.60	, as originally filed/furnished
	page		ther with any statement) under Article 19
	page		28 October 2004 (28.10.2004)
	page		
<u></u>			
		rawings:	and a simulation of the simulation of
l .	page		, as originally filed/furnished
	page		
	page	received by this Authority on	
	a sec	uence listing and/or any related table(s) - see Supplemental Box Relating to Se	quence Listing.
3.	The	umendments have resulted in the cancellation of:	
		the description mages	
		the claims. Nos. 1-3	
		tile claims, 140s.	
	Щ	the drawings, sheets/figs	
	Щ	the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
1			
4.	mad	report has been established as if (some of) the amendments annexed to this report have been considered to go beyond the disclosure as filed, as the description, pages	report and listed below had not been indicated in the Supplemental Box
		the claims, Nos.	
		the drawings, sheets/figs	
1		the sequence listing (specify):	
	一	any table(s) related to sequence listing (specify):	
* If ite	em 4 a	oplies, some or all of those sheets may be marked "superseded."	
1			

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	under Article 35(2) with rega ations supporting such statem	rd to novelty, inventive step or industri ent	al applicability;
1. Statement			
Novelty (N)	Claims	4-8	YES
	Claims		NO
Inventive step (IS)	Claims	4-8	YES
	Claims		NO
Industrial applicability (IA)	Claims	4-8	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: Brain F. O'Dowd, et al.

Cloning and chromosomal mapping of four putative novel human G-protein-coupled

receptor genes.

Gene, 1997, Vol. 187, pp.75-81

Document 2: Rodolphe Janssens, et al.

Cloning of a Human Heptahelical Receptor Colsely Related to the P2Y5 Receptor.

Biochem. Biophys. Res. Comm., 1997, Vol. 236, pp. 106-112

Document 3: WO, 02/068591, A 2 (Bristol-Myers Squibb Co.), September 6, 2002 (09.06.02)

Document 4: EP, 853126, A2 (Smithkline Beecham Corp.), July 15, 1998 (07.15.98)

Document 5: WO, 02/053737, A1 (Asahi Chemical Industry Co., Ltd.), July 11, 2002 (07.11.02)

Document 6: WO, 02/061087, A2 (Lifespan Biosciences, Inc.), August 8, 2002 (08.08.02)

Regarding claims 4-6 and 7-8

The inventions relating to claims 4 through 6, 7 and 8 appear to be novel and involve an inventive step over the descriptions in documents 1-6 cited in the ISR.

Employing a G protein-coupled protein p2y9 (GPR23) as a Lysophosphatidic acid (LPA) receptor is neither described nor suggested in documents 1-6 and related documents.

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Box No. VIII Certain observations on the international application

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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The text in the "5. Amendment" of the written amendment submitted as of October 28, 2004 is found to reversely describe the text before and after the amendment.

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Su	ppler	mental Box Relating to Sequence Listing
Co	ntinu	uation of Box No. 1, item 2:
1.	With	h regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ention, this report was established on the basis that of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
l		contained in the international application as filed
		filed together with the international application in computer readable form
		furnished subsequently to this Authority for the purpose of search and/or examination
Į		received by this Authority as an amendment* on
2.	\boxtimes	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Ad	ditional comments:
	* j	If item 4 in Box No. I applies, the listing and /or table(s) related thereto, which form part of the basis of the report, may be marke uperseded".